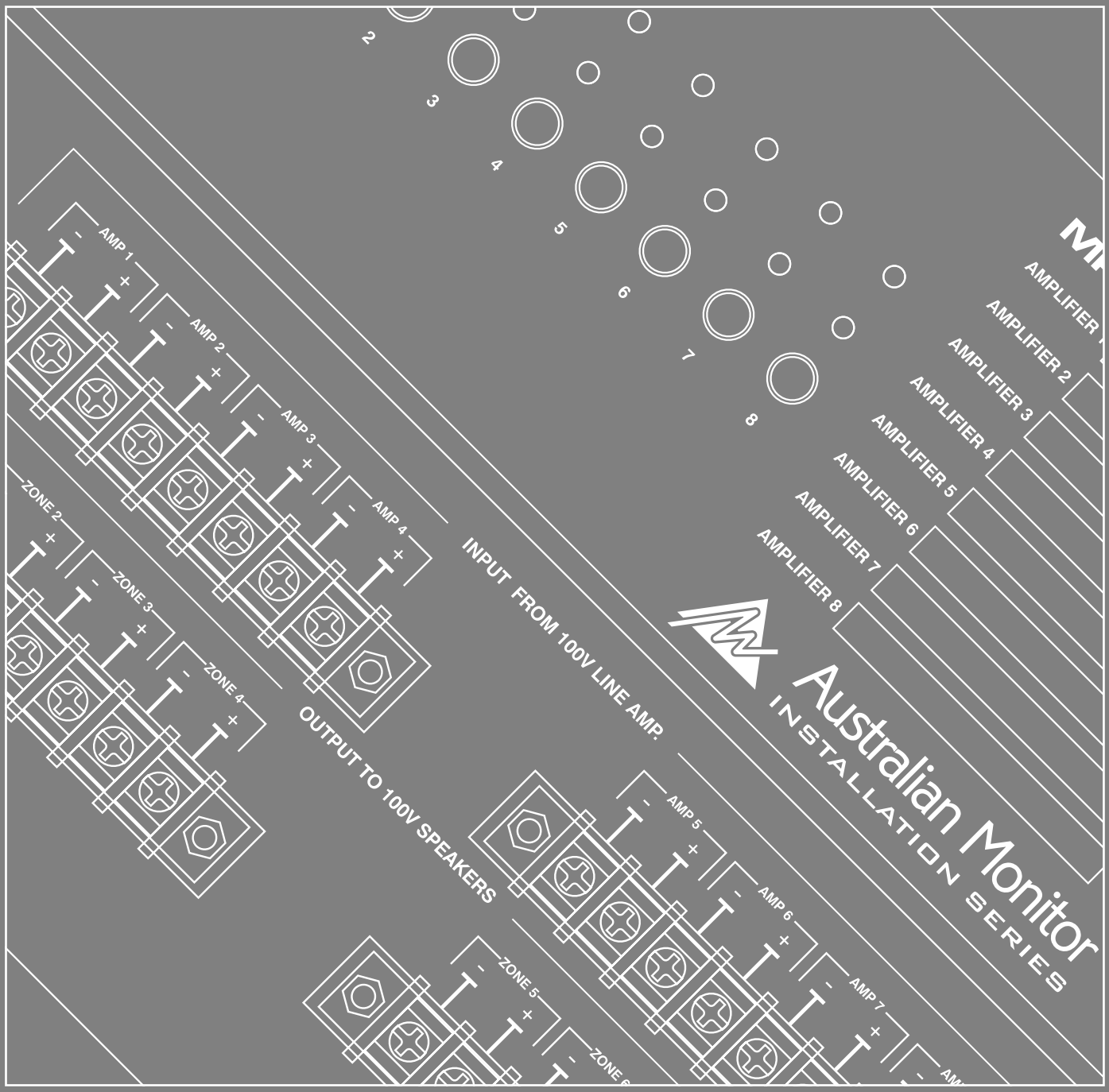
Australian Monitor
INSTALLATION SERIES

AMIS MP8

8 ZONE MONITOR PANEL
INSTALLATION AND OPERATION MANUAL



IMPORTANT SAFETY INFORMATION

1. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
2. Read all documentation before operating your equipment. Retain all documentation for future reference.
3. Follow all instructions printed on unit chassis for proper operation.
4. Do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
5. Make sure power outlets conform to the power requirements listed on the back of the unit.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
8. Mains voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
9. Have gain controls on amplifiers turned down during power-up to prevent speaker damage if there are high signal levels at the inputs.
10. Power down & disconnect units from mains voltage before making connections.
11. Never hold a power switch in the "ON" position if it won't stay there itself!
12. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, weathersheet, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign matter.
14. Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages. There are no user serviceable parts inside.
15. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
16. Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
17. Do not run the output of any amplifier channel back into another channel's input. Do not parallel- or series-connect an amplifier output with any other amplifier output.

    Australian Monitor Inc is not responsible for damage to loudspeakers for any reason.
18. Do not ground any red ("hot") terminal. Never connect a "hot" (red) output to ground or to another "hot" (red) output!
19. Non-use periods. The power cord of equipment should be unplugged from the outlet when left unused for a long period of time.
20. Service Information Equipment should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged.
    B. Objects have fallen, or liquid has been spilled into the equipment
    C. The equipment has been exposed to rain
    D. The equipment does not appear to operate normally, or exhibits a marked change in performance
    E. The equipment has been dropped, or the enclosure damaged.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL

INTRODUCTION AND CONTENTS

The Australian Monitor Installation Series MP8 is a 2 RU monitoring panel that allows you to monitor any of up to 8, constant voltage or low impedance speaker lines.

This can be done via the on-board 2.5" monitor speaker or via the 8 segment VU meter. The MP8 also provides signal present LED's for each amplifier as well as LED's to indicate which amplifier is currently selected for monitoring.

The MP8 operates from either an AC/DC 12V-24V plug pack or via 24 VDC & boasts ample label space.

We thank you for choosing Australian Monitor Installation Series &, as with all our products, the MP8 contains many clever features & is contractor friendly.

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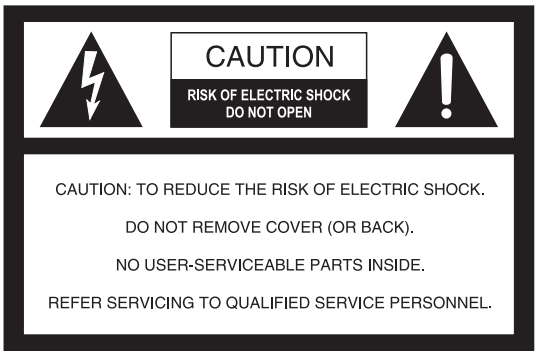

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING !

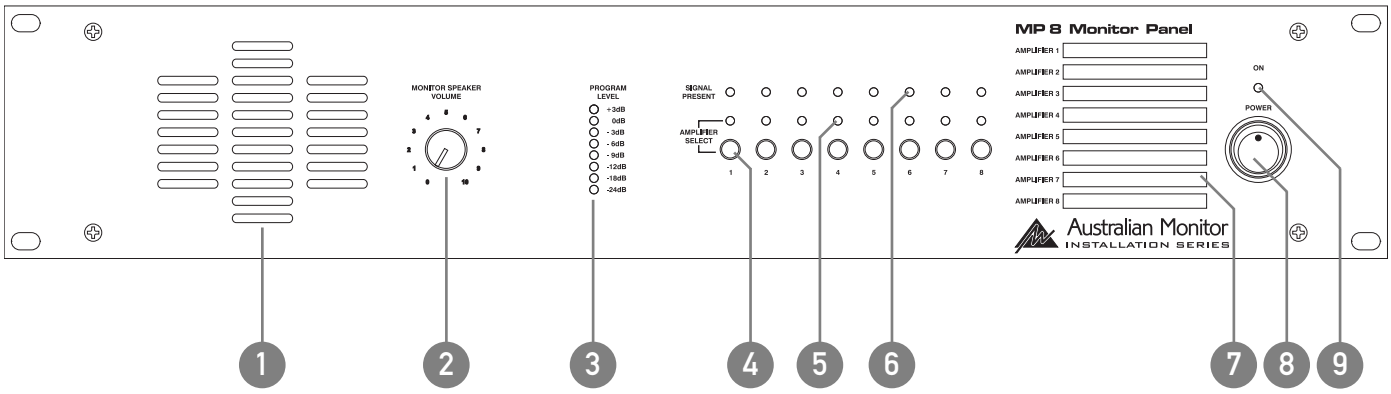
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK.
DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarised) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure. To prevent electric shock, match wide blade of plug to wide slot, fully insert.

FRONT PANEL



1 MONITOR SPEAKER

A 2.5" speaker is located behind a cloth grille. No cleaning is required.

2 MONITOR SPEAKER VOLUME CONTROL

This knob controls the volume level of the monitor speaker.

NOTE: The Speaker Volume Control does not affect the level of the VU indicator nor does it affect the amplifiers or speaker lines that are connected to the MP8.

3 VU METER

This meter indicates the output level of the currently selected amplifier. The 0dB level is referenced to 100V. This is an RMS meter, not a peak meter.

4 SELECTOR SWITCHES

These switches select which amplifier is connected to the monitor and meter circuits. The switches are mechanical interlocking push buttons, meaning that when one button is pushed, the previously selected switch is mechanically deselected.

5 SELECT INDICATOR

This LED indicator will illuminate to show which amplifier is selected for monitoring.

6 SIGNAL PRESENT

This LED will light dimly when the signal from the corresponding amplifier reaches approximately -24dB (6.3Vac) indicating signal is present and will get progressively brighter with increased signal level.

NOTE: Signal present indication is irrespective of which amplifier is selected. This indicator is a passive circuit across the amplifier input and will indicate signal across each speaker line even when the MP8 is not powered.

7 LABELS

This area is available to custom label the zones each amplifier is driving.

8 POWER SWITCH

This switch switches power from the AC/DC plug pack input.

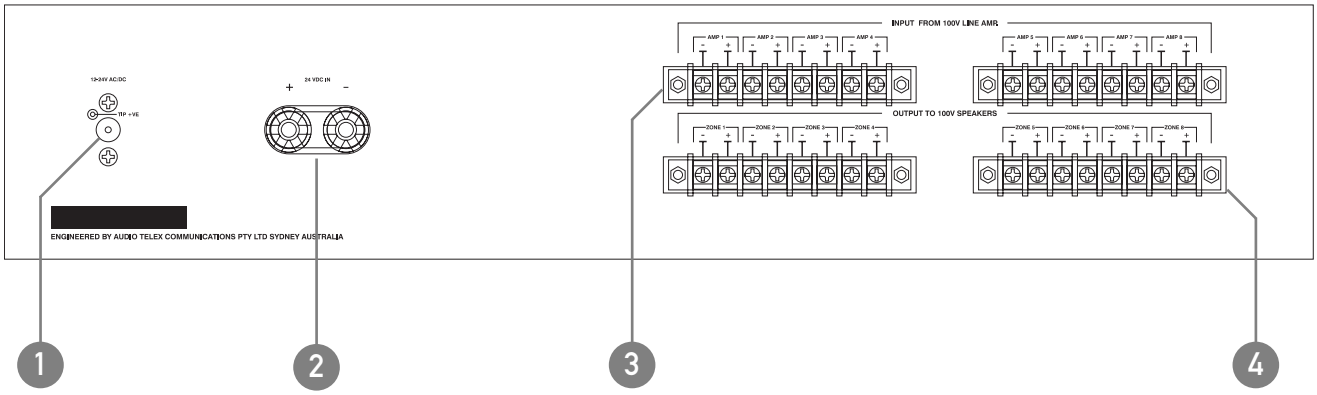
NOTE: When using 24VDC IN terminals the unit is on regardless of switch position.

9 POWER ON LED

This indicates there is power to the unit.

NOTE: When using 24VDC IN terminals the power LED will always be on.

REAR PANEL



1 POWER SOCKET

This 2.1mm socket accepts AC or DC voltage between 12V and 24V. For DC, tip is positive.

2 24VDC IN BINDING POSTS

These binding posts provide connection for 24V emergency systems and is not switched by the front panel power switch. The 24VDC IN does not provide trickle charge facility.

3 INPUT TERMINAL STRIP

Paired connection from each amplifier in the system. The label AMP 'X' corresponds with AMPLIFIER 'X' on the selector switches.

4 OUTPUT TERMINAL STRIP

Paired connection to each zone speaker distribution, wired in parallel with input terminal strip.

NOTE: The terminal lug accepts wire gauges from AWG22 (0.75mm) up to AWG16 (1.5mm). Each terminal is rated at 15A/300VAC.

NOTE: The MP8 will accept input from both constant voltage systems and low impedance systems or a mixture of the two.

INSTALLATION

WIRING:

Connect the speaker output of the first amplifier to INPUT terminals labelled AMP 1, maintaining correct polarity. Connect the speaker load for this amplifier to OUTPUT terminals labelled ZONE 1.

Repeat for additional amplifiers and speaker loads.

Always use appropriate cable for amplifier to MP8 and MP8 to speaker wiring.

POWER REQUIREMENTS:

The MP8 can operate on the supplied plug pack and/or separate 24V DC power supply.

☛ **A NOTE ABOUT GROUNDING: It may be necessary in some circumstances to ground the MP8 to eliminate noise from the monitor speaker. This can be done using the negative terminal of the 24VDC IN binding post or by making sure that the chassis is electrically connected to the equipment rack (which should be grounded).**

☛ **A NOTE ABOUT SPEAKER ISOLATION: When a zone is selected for monitoring it is isolated from the other amplifiers by 1kohm resistors. The negative input is also AC referenced to chassis ground with a capacitor.**

OPERATION

The SIGNAL PRESENT LED's give a continuous indication of the signal from each of the eight connected amplifiers. Note that very low levels may not be detected.

To monitor a particular amplifier, SELECT the desired amplifier. The listening level may be adjusted using the MONITOR SPEAKER VOLUME. The PROGRAM LEVEL meter gives accurate indication of signal from the selected amplifier.

☛ **A NOTE ABOUT MONITORING: It should be noted that adjusting the monitor speaker level control does not effect the sound level in the selected zone and nor do the level indications indicate the SPL of the speakers in any zone. The MP8 should be used to monitor an amplifiers output signal quality and presence only and as such, it does not reflect the condition of the actual sound output in any speaker zone.**

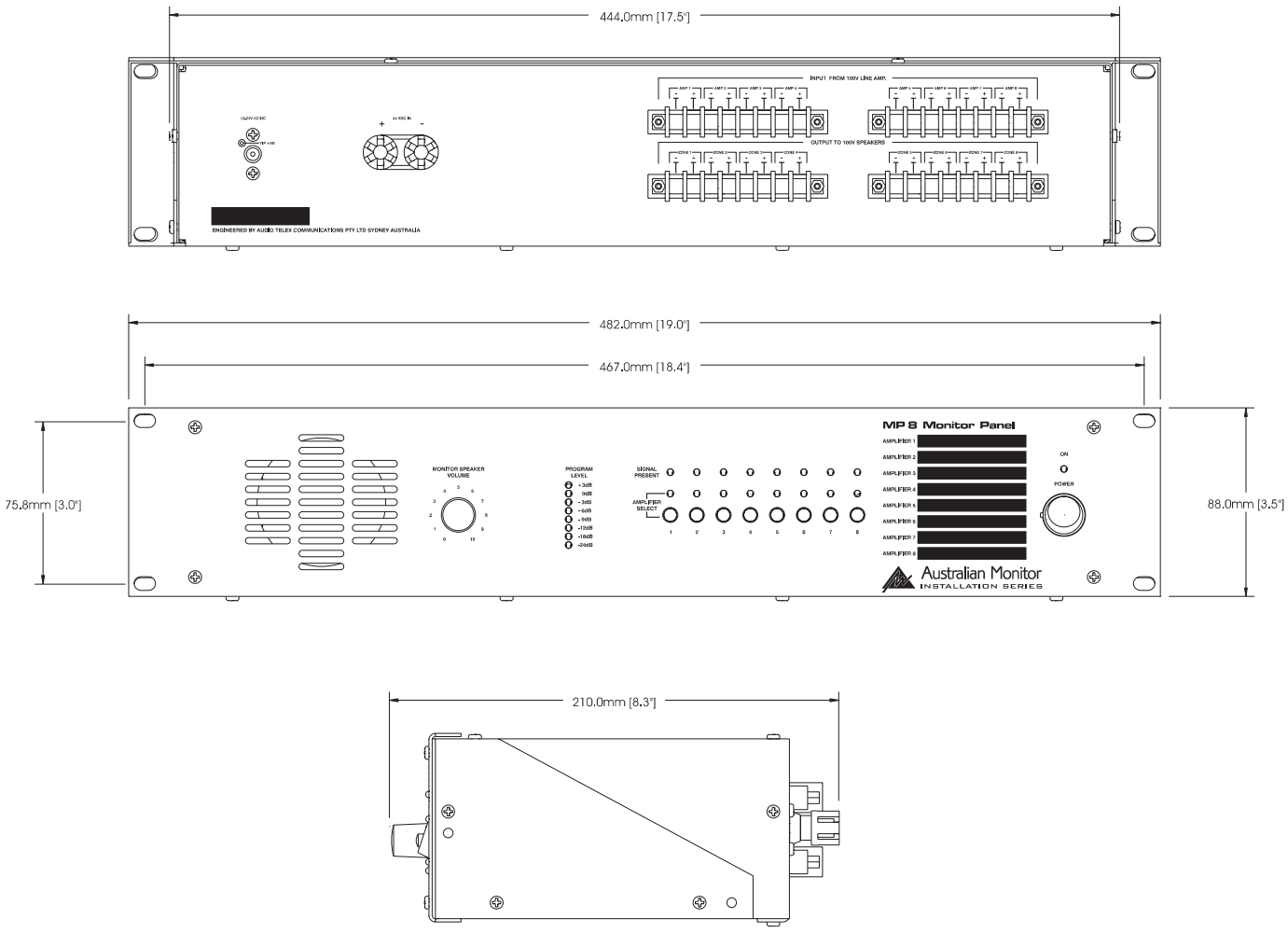
SETTING THE LEVEL

The monitor speaker level has been designed to accept a wide range of program levels. Distortion may occur in the MP8 if the speaker volume control is set too high while the amplifier is producing a high output, as indicated by the program level meter. Check the setting of the level control and reduce if necessary. If distortion is still present, then check amplifier operation and affected speaker lines.

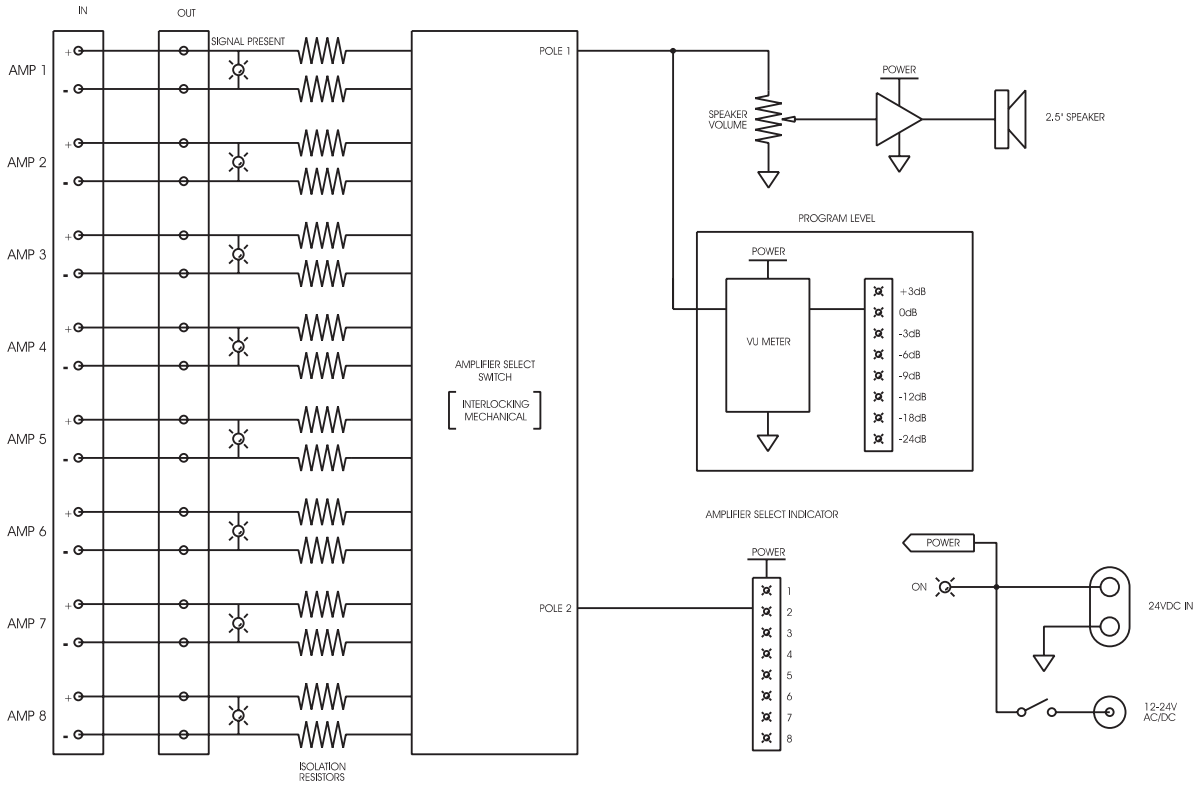
SWITCHING THE MONITORED ZONE

It is possible to select 2 amplifiers at once and monitor them simultaneously, however, this is not recommended. Fusible isolation protection exists to protect both the external amplifiers and the MP8.

DIMENSIONS


444.0mm [17.5"]
INPUT FROM 100V LINE AMP.
OUTPUT TO 100V SPEAKERS
ENGINEERED BY AUDIO TELEX COMMUNICATIONS PTY LTD SYDNEY AUSTRALIA
482.0mm [19.0"]
467.0mm [18.4"]
75.8mm [3.0"]
88.0mm [3.5"]
MP 8 Monitor Panel
MONITOR SPEAKER VOLUME
PROGRAM LEVEL
SIGNAL PRESENT
AMPLIFIER SELECT
AMPLIFIER 1
AMPLIFIER 2
AMPLIFIER 3
AMPLIFIER 4
AMPLIFIER 5
AMPLIFIER 6
AMPLIFIER 7
AMPLIFIER 8
ON
POWER
Australian Monitor
INSTALLATION SERIES
210.0mm [8.3"]

BLOCK DIAGRAM



SPECIFICATIONS

DIMENSIONS (h x w x d)	88.0 x 482.0 x 210.0 mm 3.5" x 19.0" x 8.3"
WEIGHT	Net 4.0kg Shipping 5.4kg Net 8.8lb Shipping 11.9lb
POWER INPUT:	12-24V AC/DC 8VA max
STANDING CURRENT (ALL VOLTAGES)	DC 40mA AC 85mA
MAXIMUM CURRENT	12VDC 150mA 24VDC 225mA 16VAC 350mA

MONITOR VOLUME LEVELS	Input for Max speaker output (10% THD) (Ref 100V) Pot @ 1: -6dB Pot @ 5: -14dB Pot @ 10: -27dB
CROSSTALK	-72dB @ 1kHz -53dB @ 10kHz
SIGNAL PRESENT THRESHOLD	-24dB (6.3Vrms)
METER REFERENCE	0dB 100Vrms rms meter
SPEAKER TERMINAL CABLE	AWG22 (0.75mm) to AWG16 (1.5mm)

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